

ABSTRACT

A modeling method for minimizing the cure time and flow time of a thermoset in-mold coating for a molded article. The minimization of cure time is based on determining the cure time as a function of mold temperature and initiator level. The method for minimizing flow time is based on predicting the fill pattern for a specific geometry mold. The methods are used to reduce cycle time in the preparation of in-mold coated parts and reduce defects in the appearance of the coating.

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